

PATENT ABSTRACTS OF JAPAN

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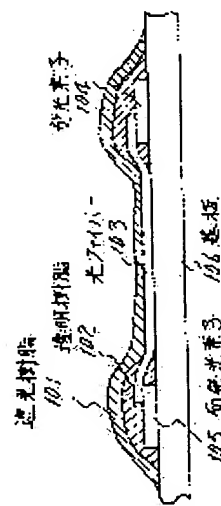
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(54) OPTICAL FIBER PACKAGING SYSTEM

(57)Abstract:

PURPOSE: To obtain an optical fiber having high pressure resistance by packaging directly an optical fiber end into a transparent resin.

CONSTITUTION: The optical fiber is constituted of a light shielding resin 101, a transparent resin 102, an optical fiber 103 to which an end processing is performed, a light receiving element 104 such as a phototransistor, etc., and a face light emitting element 105 such as a light emission diode, etc., and a light beam generated from the face light emitting element 105 is scattered in the transparent resin 102 of the upper part of the face light emitting element 105, goes into the optical fiber 103 and scattered in the transparent resin 102 of the upper part of the light receiving element 104 and transferred to the light receiving element 104. Since the light shielding resin 101 for shielding a light beam by coating the surface of the light emitting element 105 and the light receiving element 104 is used, a distance between both the elements 105, 104 can be set arbitrarily, the pressure resistance in an electrical isolation becomes extremely higher, and also, it becomes possible to bring plural light emitting elements 105 and light receiving elements 104 on the same substrate to optical coupling selectively.



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